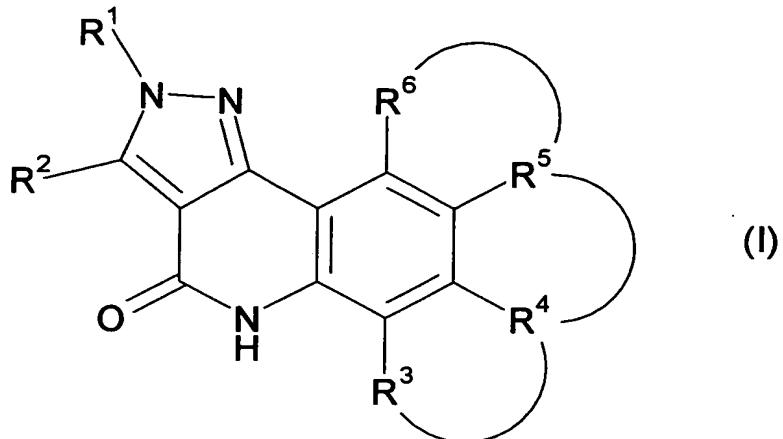


CLAIMS

1. A compound represented by the formula:



5 wherein R¹ is an aryl group which may be substituted, or an aromatic heterocyclic group which may be substituted; R² is a hydrogen atom, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which may be substituted; R³, R⁴, R⁵ and R⁶, which may be identical or
10 different, are each (1) a hydrogen atom, (2) a nitro group, (3) a cyano group, (4) a halogen atom, (5) a hydrocarbon group which may be substituted, (6) an amino group which may be substituted, (7) a hydroxy group which may be substituted, or (8) a thiol group which may be substituted; and R³ and R⁴, R⁴
15 and R⁵, and R⁵ and R⁶ may respectively form a ring together with the adjacent carbon atom, or a salt thereof.

2. The compound according to Claim 1, wherein R¹ is

(1) a phenyl group which may be substituted with 1 to 5
20 substituents selected from: (1') a C₁₋₆ alkyl group which may be substituted with a substituent selected from a C₁₋₆ alkyl group, a C₂₋₆ alkenyl group, a C₂₋₆ alkynyl group, a C₆₋₁₂ aryl group, a C₇₋₁₄ aralkyl group, a (6') hydroxy group, a C₁₋₆ alkoxy group, a C₆₋₁₂ aryloxy group, a C₇₋₁₄ aralkyloxy group, a C₁₋₆ alkyl-
25 carbonyloxy group, a C₂₋₆ alkenyl-carbonyloxy group, a C₂₋₆ alkynyl-carbonyloxy group, a C₁₋₆ alkylthio group, a C₆₋₁₂ arylthio group, a C₇₋₁₄ aralkylthio group, a carboxy group, a C₁₋

6 alkyl-carbonyl group, a C₂₋₆ alkenyl-carbonyl group, a C₂₋₆ alkynyl-carbonyl group, a C₆₋₁₂ aryl-carbonyl group, a C₇₋₁₄ aralkyl-carbonyl group, a C₁₋₆ alkoxy-carbonyl group, a C₂₋₆ alkenyloxy-carbonyl group, a C₂₋₆ alkynyloxy-carbonyl group, a
5 C₆₋₁₂ aryloxy-carbonyl group, a C₇₋₁₄ aralkyloxy-carbonyl group, a carbamoyl group, a mono-C₁₋₆ alkyl-carbamoyl group, a di-C₁₋₆ alkyl-carbamoyl group, a C₁₋₆ alkylsulfonyl group, a C₂₋₆ alkenylsulfonyl group, a C₂₋₆ alkynylsulfonyl group, an amino group, a mono-C₁₋₆ alkylamino group, a di-C₁₋₆ alkylamino group,
10 a mono-C₂₋₆ alkenylamino group, a di-C₂₋₆ alkenylamino group, a mono-C₂₋₆ alkynylamino group, a di-C₂₋₆ alkynylamino group, a mono-C₆₋₁₂ arylamino group, a di-C₆₋₁₂ arylamino group, a mono-C₇₋₁₄ aralkylamino group, a di-C₇₋₁₄ aralkylamino group, a halogen atom, an azido group, a nitro group, a cyano group, a 5- to 8-
15 membered heterocyclic group (this heterocyclic group may be substituted with a halogen atom, a hydroxy group, or a C₁₋₆ alkyl group which may be halogenated), a 5- to 8-membered heterocyclic-oxy group (this heterocyclic moiety may be substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkyl group which may be halogenated), a 5- to 8-membered
20 heterocyclic-carbonyl group (this heterocyclic moiety may be substituted with a halogen atom, a hydroxy group or a C₁₋₆ alkyl group which may be halogenated), a C₁₋₄ alkylene group and a C₁₋₄ alkylenedioxy group (hereinafter, simply referred to as
25 Substituent Group C); (2') a C₂₋₆ alkenyl group which may be substituted with a substituent selected from the Substituent Group C; (3') a C₂₋₆ alkynyl group which may be substituted with a substituent selected from the Substituent Group C; (4'), a C₆₋₁₂ aryl group which may be substituted with a substituent
30 selected from the Substituent Group C; (5') a C₇₋₁₄ aralkyl group which may be substituted with a substituent selected from the Substituent Group C; (6') a hydroxy group; (7') a C₁₋₆ alkoxy group which may be substituted with a substituent selected from the Substituent Group C; (8') a C₆₋₁₂ aryloxy
35 group which may be substituted with a substituent selected

from the Substituent Group C; (9') a C₇₋₁₄ aralkyloxy group which may be substituted with a substituent selected from the Substituent Group C; (10') a C₁₋₆ alkyl-carbonyloxy group which may be substituted with a substituent selected from the

5 Substituent Group C; (11') a C₂₋₆ alkenyl-carbonyloxy group which may be substituted with a substituent selected from the Substituent Group C; (12') a C₂₋₆ alkynyl-carbonyloxy group which may be substituted with a substituent selected from the Substituent Group C; (13') a C₁₋₆ alkylthio group which may be

10 substituted with a substituent selected from the Substituent Group C; (14') a C₆₋₁₂ arylthio group which may be substituted with a substituent selected from the Substituent Group C; (15') a C₇₋₁₄ aralkylthio group which may be substituted with a substituent selected from the Substituent Group C; (16') a

15 carboxy group; (17') a C₁₋₆ alkyl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (18') a C₂₋₆ alkenyl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (19') a C₂₋₆ alkynyl-carbonyl group which may be

20 substituted with a substituent selected from the Substituent Group C; (20') a C₆₋₁₂ aryl-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (21') a C₇₋₁₄ aralkyl-carbonyl group which may be substituted with a substituent selected from the Substituent

25 Group C; (22') a C₁₋₆ alkoxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (23') a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (24') a C₂₋₆ alkynyloxy-carbonyl group which may be

30 substituted with a substituent selected from the Substituent Group C; (25') a C₆₋₁₂ aryloxy-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (26') a C₇₋₁₄ aralkyloxy-carbonyl group which may be substituted with a substituent selected from the Substituent

35 Group C; (27') a carbamoyl group; (28') a mono-C₁₋₆ alkyl-

carbamoyl group which may be substituted with a substituent selected from the Substituent Group C; (29') a di-C₁₋₆ alkylcarbamoyl group which may be substituted with a substituent selected from the Substituent Group C; (30') a C₁₋₆

5 alkylsulfonyl group which may be substituted with a substituent selected from the Substituent Group C; (31') a C₂₋₆ alkenylsulfonyl group which may be substituted with a substituent selected from the Substituent Group C; (32') a C₂₋₆ alkynylsulfonyl group which may be substituted with a

10 substituent selected from the Substituent Group C; (33') an amino group; (34') a mono-C₁₋₆ alkylamino group which may be substituted with a substituent selected from the Substituent Group C; (35') a di-C₁₋₆ alkylamino group which may be substituted with a substituent selected from the Substituent

15 Group C; (36') a mono-C₂₋₆ alkenylamino group which may be substituted with a substituent selected from the Substituent Group C; (37') a di-C₂₋₆ alkenylamino group which may be substituted with a substituent selected from the Substituent Group C; (38') a mono-C₂₋₆ alkynylamino group which may be

20 substituted with a substituent selected from the Substituent Group C; (39') a di-C₂₋₆ alkynylamino group which may be substituted with a substituent selected from the Substituent Group C; (40') a mono-C₆₋₁₂ arylamino group which may be substituted with a substituent selected from the Substituent

25 Group C; (41') a di-C₆₋₁₂ arylamino group which may be substituted with a substituent selected from the Substituent Group C; (42') a mono-C₇₋₁₄ aralkylamino group which may be substituted with a substituent selected from the Substituent Group C; (43') a di-C₇₋₁₄ aralkylamino group which may be

30 substituted with a substituent selected from the Substituent Group C; (44') a mono-5- to 8-membered heterocyclic amino group which may be substituted with a substituent selected from the Substituent Group C; (45') a di-5- to 8-membered heterocyclic amino group which may be substituted with a

35 substituent selected from the Substituent Group C; (46') a (C₁₋₆

alkyl which may be substituted with a substituent selected from the Substituent Group C) (a 5- to 8-membered heterocyclic which may be substituted with a substituent selected from the Substituent Group C) amino group; (47') a halogen atom; (48') 5 an azido group; (49') a nitro group; (50') a cyano group; (51') a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from the Substituent Group C; (52') a 5- to 8-membered heterocyclic-oxy group which may be substituted with a substituent selected from the 10 Substituent Group C; (53') a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with a substituent selected from the Substituent Group C; (54') a C₁₋₄ alkylene group; and (55') a C₁₋₄ alkylenedioxy group (hereinafter, simply referred to Substituent Group A),

15 (2) a 5- or 6-membered aromatic heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or

(3) a group resulting from condensation of the 5- or 6-membered aromatic heterocyclic group which may be substituted 20 with 1 to 5 substituents selected from the Substituent Group A, with a benzene ring;

R² is

(1) a hydrogen atom,

(2) an amino group which may be mono- or di- substituted 25 with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be 30 substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group 35 A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5

substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5

5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀

10 aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5

15 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆

20 cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5

25 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁

30 aralkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be

35 substituted with 1 to 5 substituents selected from the

Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be 5 substituted with 1 to 5 substituents selected from the Substituent Group A,

(3) a hydroxy group which may be substituted with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the 10 Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be 15 substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ 20 alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 25 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ 30 aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 35 substituents selected from the Substituent Group A; a C₂₋₆

alkynyoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkynyoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ 5 aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkynyoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 10 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ 15 alkylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyloxy group which may be substituted with 1 to 5 20 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the 25 Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the 30 Substituent Group A,

(4) a thiol group which may be substituted with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be 35 substituted with 1 to 5 substituents selected from the

Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-oxy group which may be substituted

with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic oxy-
5 carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(5) a C₁₋₆ alkylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

10 (6) a C₆₋₁₀ arylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(7) a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group
15 A, or

(8) a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A;

R³, R⁴, R⁵ and R⁶, which may be identical or different,
20 are each:

- (1) a hydrogen atom,
- (2) a nitro group,
- (3) a cyano group,
- (4) a halogen atom,

25 (5) a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(6) a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(7) a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,
30

(8) a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(9) a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

35 (10) a C₇₋₁₁ aralkyl group which may be substituted with 1

to 5 substituents selected from the Substituent Group A,

 (11) a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 5 (12) a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 (13) a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the

 10 Substituent Group A,

 (14) a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 (15) a C₆₋₁₀ aryl-carbonyl group which may be substituted

 15 with 1 to 5 substituents selected from the Substituent Group A,

 (16) a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 20 (17) a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 (18) a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the

 25 Substituent Group A,

 (19) a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 (20) a C₃₋₆ cycloalkyloxy-carbonyl group which may be

 30 substituted with 1 to 5 substituents selected from the Substituent Group A,

 (21) a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

 35 (22) a C₇₋₁₁ aralkyloxy-carbonyl group which may be

substituted with 1 to 5 substituents selected from the Substituent Group A,

(23) a carbamoyl group which may be mono- or di- substituted with a substituent selected from: a C₁₋₆ alkyl group

5 which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the

10 Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5

15 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆

20 alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5

25 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆

30 alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyloxy-carbonyl group which may be substituted with 1

35 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀

aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆

5 alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyl group which may be substituted with 1 to 5

10 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the

15 Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the

20 Substituent Group A,

(24) a sulfamoyl group which may be mono- or di-substituted with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be

25 substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the

30 Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5

35 substituents selected from the Substituent Group A; a C₂₋₆

alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆

5 cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5

10 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆

15 alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5

20 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀

25 arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to

30 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5

35 substituents selected from the Substituent Group A; and a 5-

to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(25) an amino group which may be mono- or di-substituted with
5 a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be
10 substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group
15 A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5
20 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀
25 aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5
30 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆
35 cycloalkyloxy-carbonyl group which may be substituted with 1

to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5
5 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-
10 membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-
15 carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

20 (26) a hydroxy group which may be substituted with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the
25 Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted
30 with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆
35 alkenyl-carbonyl group which may be substituted with 1 to 5

substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5

5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆

10 alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyloxy-carbonyl group which may be substituted with 1 to 5

15 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁

20 aralkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5

25 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀

30 arylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkylsulfonyloxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to

35 5 substituents selected from the Substituent Group A; a 5- to

8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic sulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,

(27) a thiol group which may be substituted with a substituent selected from: a C₁₋₆ alkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkenyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ cycloalkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyl-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₁₋₆ alkoxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆

alkenyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₂₋₆ alkynylloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₃₋₆ 5 cycloalkyloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₆₋₁₀ aryloxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a C₇₋₁₁ aralkyloxy-carbonyl group which may be substituted with 1 to 5 10 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; a 5- to 8-membered heterocyclic-oxy group which may be substituted with 1 to 5 substituents selected from the Substituent Group 15 A; a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A; and a 5- to 8-membered heterocyclic oxy-carbonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,
20 (28) a C₁₋₆ alkylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,
25 (29) a C₆₋₁₀ arylsulfinyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A,
(30) a C₁₋₆ alkylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or
30 (31) a C₆₋₁₀ arylsulfonyl group which may be substituted with 1 to 5 substituents selected from the Substituent Group A;
35 or R³ and R⁴, R⁴ and R⁵, and R⁵ and R⁶ respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring which may be substituted with 1 to 5 substituents selected from the Substituent Group A, or (2) a

5- to 8-membered heterocyclic ring which may be substituted with 1 to 5 substituents selected from the Substituent Group A, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

5

3. The compound according to Claim 1, wherein R¹ is a substituted aryl group, or an aromatic heterocyclic group which may be substituted.

10 4. The compound according to Claim 1, wherein at least one of R³, R⁴, R⁵ and R⁶ is a nitro group, a cyano group, a hydrocarbon group which may be substituted, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which may be substituted.

15

5. The compound according to Claim 1, wherein R⁴ is an amino group which may be substituted, or a hydroxy group which may be substituted.

20 6. The compound according to Claim 1, wherein R¹ is:

(1) a C₆₋₁₂ aryl group which may be substituted with 1 to 3 substituents selected from:

(a) a C₁₋₆ alkyl group which may be substituted with 1 to 3 substituents selected from

25 (i) a halogen atom,

(ii) a hydroxy group, and

(iii) a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from a hydroxy group and a C₁₋₆ alkyl group, and has 1 to 3 heteroatoms

30 selected from a nitrogen atom, an oxygen atom and a sulfur atom;

(b) a C₁₋₆ alkoxy group which may be substituted with a substituent selected from

(i) a hydroxy group,

35 (ii) a C₁₋₆ alkoxy group,

- (iii) a carboxy group,
- (iv) a C₁₋₆ alkoxy-carbonyl group,
- (v) a carbamoyl group,
- (vi) a carbamoyl group which is mono- or di-
5 substituted with a C₁₋₆ alkyl group which may be substituted
with a substituent selected from a hydroxy group and a C₁₋₆
alkylsulfonyl group, and
- (viii) a 5- to 8-membered heterocyclic group
having 1 to 3 heteroatoms selected from a nitrogen atom, an
10 oxygen atom and a sulfur atom;
- (c) a halogen atom;
- (d) a hydroxy group;
- (e) an amino group;
- (f) a nitro group;
- 15 (g) a carboxy group;
- (h) a C₁₋₆ alkoxy-carbonyl group;
- (i) a C₁₋₆ alkyl-carbonyloxy group;
- (j) a C₆₋₁₂ aryloxy group which may be substituted with
a substituent selected from a halogen atom, a hydroxy group
20 and a C₁₋₆ alkoxy group;
- (k) a C₆₋₁₄ aralkyloxy group;
- (l) a C₃₋₇ cycloalkyloxy group;
- (m) a 5- to 8-membered heterocyclic-oxy group which
may be substituted with a C₁₋₆ alkyl group, and has 1 to 3
25 heteroatoms selected from a nitrogen atom, an oxygen atom and
a sulfur atom;
- (n) a C₁₋₆ alkylsulfonyl group; and
- (o) a C₆₋₁₂ arylsulfonyl group,

or

30 (2) a 5- or 6-membered aromatic heterocyclic group which
may be substituted with 1 to 3 substituents selected from:

- (a) a C₁₋₆ alkyl group, and
- (b) a C₁₋₆ alkoxy group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an
35 oxygen atom and a sulfur atom, or a group resulting from

condensation of the 5- or 6-membered aromatic heterocyclic group with a benzene ring;

R² is:

5 (1) a hydrogen atom, or
(2) an amino group which may be mono- or di-substituted with a C₁₋₆ alkyl group;

R³ is a hydrogen atom;

R⁴ is:

10 (1) a hydrogen atom,
(2) a nitro group,
(3) an amino group,
(4) a hydroxy group,
(5) a C₁₋₆ alkoxy group which may be substituted with a substituent selected from:

15 (a) a hydroxy group,
(b) a cyano group,
(c) a C₁₋₆ alkoxy group,
(d) a carboxy group,
(e) a C₁₋₆ alkoxy-carbonyl group,
20 (f) a carbamoyl group,
(g) a carbamoyl group which is mono- or di-substituted with a C₁₋₆ alkyl group, and
(h) an amino group which may be mono- or di-substituted with a C₁₋₆ alkyl group,

25 or

(6) a group represented by the formula:

-X'' (CH₂)_{b''}-R^{11''}

wherein X'' is -O-, -NHSO₂-, -NHCO- or -NR^{12''}- (wherein R^{12''} is a hydrogen atom, or a C₁₋₆ alkyl group which may be substituted with a 30 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom),

b'' is an integer from 1 to 4, and

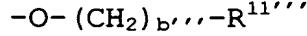
R^{11''} is a 5- to 8-membered heterocyclic group which may 35 be substituted with a substituent selected from

- (a) a hydroxy group, and
- (b) a C₁₋₆ alkyl group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

5 R⁵ is:

- (1) a hydrogen atom,
- (2) a C₁₋₆ alkoxy group, or
- (3) a group represented by the formula:



10 wherein b''' is an integer from 2 to 4, and

R^{11''''} is a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from

- (a) a C₁₋₆ alkyl group, and
- (b) a C₆₋₁₄ aryl group which may be substituted with a

15 halogen atom, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R⁶ is:

- (1) a hydrogen atom,
- (2) a hydroxy group,

20 (3) a C₁₋₆ alkoxy group which may be substituted with a substituent selected from:

- (a) a hydroxy group,

- (b) a C₁₋₆ alkoxy group,

- (c) a carboxy group,

- (d) a C₁₋₆ alkoxy-carbonyl group,

- (e) a carbamoyl group,

25 (f) a carbamoyl group which is mono- or di-substituted with a C₁₋₆ alkyl group which may be substituted with an amino group which may be mono- or di-substituted with a C₁₋₆ alkyl

30 group,

(g) a carbamoyl group which is mono- or di-substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom, and

35 (h) a 5- to 8-membered heterocyclic-carbonyl group

which may be substituted with a C₁₋₆ alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(4) a C₇₋₁₄ aralkyloxy group, or
5 (5) a group represented by the formula:
-O-(CH₂)_{b''''}-R^{11''''}
wherein b'''' is an integer from 1 to 4, and
R^{11''''} is a 5- to 8-membered heterocyclic group having 1
10 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom
and a sulfur atom.

7. The compound according to Claim 1, wherein R¹ is a C₆₋₁₂ aryl group which may be substituted with 1 to 3 substituents selected from:

15 (a) a C₁₋₆ alkyl group which may be substituted with 1 to 3 substituents selected from:

(i) a halogen atom,
(ii) a hydroxy group, and
(iii) a 5- to 8-membered heterocyclic group which may

20 be substituted with a substituent selected from a hydroxy group, a halogen atom and a C₁₋₆ alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(b) a C₁₋₆ alkoxy group which may be substituted with a
25 substituent selected from:

(i) a hydroxy group,
(ii) a C₁₋₆ alkoxy group,
(iii) a carboxy group,
(iv) a C₁₋₆ alkoxy-carbonyl group,

30 (v) a carbamoyl group, and
(vi) a carbamoyl group which is mono- or di-
substituted with a C₁₋₆ alkyl group,

(c) a halogen atom,
(d) a hydroxy group,
35 (i) a C₁₋₆ alkyl-carbonyloxy group,

(j) a C₆₋₁₂ aryloxy group which may be substituted with a halogen atom, and

(m) a 5- to 8-membered heterocyclic-oxy group which may be substituted with a C₁₋₆ alkyl group, and has 1 to 3

5 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R² is:

- (1) a hydrogen atom, or
- (2) an amino group which may be mono- or di-substituted 10 with a C₁₋₆ alkyl group;

R³ is a hydrogen atom;

R⁴ is:

- (1) a hydrogen atom,
- (2) a nitro group,
- (3) an amino group,
- (4) a hydroxy group,
- (5) a C₁₋₆ alkoxy group which may be substituted with a substituent selected from:

- (a) a hydroxy group,
- (b) a cyano group,
- (c) a C₁₋₆ alkoxy group,
- (d) a carboxy group,
- (e) a C₁₋₆ alkoxy-carbonyl group,
- (f) a carbamoyl group, and
- (g) a carbamoyl group which is mono- or di-substituted 25 with a C₁₋₆ alkyl group, or

(6) a group represented by the formula:

-X'' (CH₂)_{b''}-R^{11''}

wherein X'' is -O-, -NR^{12''}- (wherein R^{12''} is a hydrogen atom, 30 or a C₁₋₆ alkyl group which may be substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom);

b'' is an integer from 1 to 4; and

R^{11''} is a 5- to 8-membered heterocyclic group which may 35 be substituted with a substituent selected from:

- (a) a hydroxy group, and
- (b) a C₁₋₆ alkyl group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

5 R⁵ is:

- (1) a hydrogen atom, or
- (2) a C₁₋₆ alkoxy group;

R⁶ is:

10 (1) a hydrogen atom, or
(2) a C₁₋₆ alkoxy group which may be substituted with a substituent selected from:

15 (a) a hydroxy group,
(b) a C₁₋₆ alkoxy group,
(c) a carboxy group,
(d) a C₁₋₆ alkoxy-carbonyl group,
(e) a carbamoyl group,
(f) a carbamoyl group which is mono- or di-substituted with a C₁₋₆ alkyl group which may be substituted with an amino group which may be mono- or di-substituted with a C₁₋₆ alkyl
20 group,

(g) a carbamoyl group which is mono- or di-substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom, and

25 (h) a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with a C₁₋₆ alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

30 8. The compound according to Claim 1, wherein R¹ is (1) a phenyl group which may be substituted with 1 to 3 substituents selected from: (a) a C₁₋₆ alkyl group which may be substituted with 1 to 3 halogen atoms or hydroxy groups, (b) a C₁₋₆ alkoxy group, (c) a C₁₋₆ alkyl-carbonyloxy group, (d) a C₁₋₆ alkoxy-
35 carbonyl group, (e) a C₁₋₆ alkyl-carbonyl group, (f) a C₁₋₆

alkylsulfonyl group, (g) a halogen atom, (h) a hydroxy group, (i) an amino group, (j) a nitro group, (k) a carboxy group, (l) a cyano group, (m) a C₆₋₁₂ aryloxy group, (n) a C₇₋₁₄ aralkyloxy group, (o) a C₆₋₁₂ aryl-carbonyl group, (p) a C₇₋₁₄ 5 aralkyl-carbonyl group, (q) a mono-C₁₋₆ alkylamino group, (r) a di-C₁₋₆ alkylamino group, (s) a C₆₋₁₂ arylamino group, and (t) a C₇₋₁₄ aralkylamino group (hereinafter, simply referred to as 10 Substituent Group B), (2) a pyridyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group B, (3) a thiazolyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group B, or (4) a pyrimidinyl group which may be substituted with 1 to 3 substituents selected from the 15 Substituent Group B;

15 R² is (1) a hydrogen atom, (2) an amino group which may be mono- or di-substituted with (a) a C₁₋₆ alkyl group, or (b) a C₁₋₆ alkyl-carbonyl group, or (3) a hydroxy group which may be substituted with (a) a C₁₋₆ alkyl group, or (b) a C₁₋₆ alkyl-carbonyl group;

20 R³, R⁴, R⁵ and R⁶, which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a C₁₋₆ alkyl group, (5) an amino group, (6) a hydroxy group, (7) a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group, or (8) a group represented by the formula: -

25 X(CH₂)_b-R¹¹ [wherein X is -O-, -S-, -S(O)-, -S(O)₂-, -NR¹²-, -OSO₂-, -NR¹²CO-, -NR¹²SO₂-, -CONR¹²- or -SO₂NR¹²- (wherein R¹² is a hydrogen atom or a C₁₋₆ alkyl group); b is an integer from 2 to 4; R¹¹ is (a) a piperidyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (b) a piperazinyl group 30 which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, or (d) a pyrrolidinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group]; or R³ and R⁴, R⁴ and R⁵, and R⁵ and R⁶ respectively form, 35 together with the adjacent carbon atom, (1) a 5- to 8-membered

homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

5 9. The compound according to Claim 1, wherein R¹ is (1) a phenyl group which may be substituted with 1 to 3 substituents selected from (a) a C₁₋₃ alkyl group which may be substituted with 1 to 3 halogen atoms or hydroxy groups, (b) a C₁₋₃ alkoxy group, (c) a C₁₋₃ alkyl-carbonyloxy group, (d) a halogen atom,
10 (e) a hydroxy group, (f) an amino group, and (g) a cyano group (hereinafter, simply referred to as Substituent Group C), or (2) a pyridyl group which may be substituted with 1 to 3 substituents selected from the Substituent Group C;

R² is a hydrogen atom or an amino group;

15 R³ is (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a C₁₋₆ alkyl group, (5) an amino group, (6) a hydroxy group, or (7) a C₁₋₆ alkoxy group;

R⁴, R⁵ and R⁶, which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a C₁₋₆ alkyl group, (5) an amino group, (6) a hydroxy group, (7) a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group, or (8) a group represented by the formula: -X(CH₂)_b-R¹¹ [wherein X is -O-, -NR¹²-, -OSO₂-, -NR¹²CO-, -NR¹²SO₂-, -CONR¹²- or -SO₂NR¹²- (wherein R¹² is a hydrogen atom or a C₁₋₆ alkyl group); b is an integer from 2 to 4; R¹¹ is (a) a piperidyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (b) a piperazinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, or (d) a pyrrolidinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group]; or R³ and R⁴, R⁴ and R⁵, and R⁵ and R⁶ respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring having 1 to 3 heteroatoms selected from a nitrogen atom, an

oxygen atom and a sulfur atom.

10. The compound according to Claim 1, wherein R¹ is a phenyl group which may be substituted with 1 to 3 substituents
5 selected from (a) a C₁₋₃ alkyl group which may be substituted with 1 to 3 halogen atoms or hydroxy groups, (b) a C₁₋₃ alkoxy group, (c) a C₁₋₃ alkyl-carbonyloxy group, (d) a halogen atom, (e) a hydroxy group, (f) an amino group, and (g) a cyano group;

10 R² is a hydrogen atom or an amino group;
R³ is a hydrogen atom;
R⁴, R⁵ and R⁶, which may be identical or different, are each (1) a hydrogen atom, (2) a cyano group, (3) a halogen atom, (4) a C₁₋₆ alkyl group, (5) an amino group, (6) a hydroxy group, (7) a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group, or (8) a group represented by the formula: -X(CH₂)_b-R¹¹ [wherein X is -O-, -NR¹²-, -OSO₂-, -NR¹²CO-, -NR¹²SO₂- (wherein R¹² is a hydrogen atom or a C₁₋₆ alkyl group); b is an integer from 2 to 4; and R¹¹ is (a) a piperidyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (b) a piperazinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (c) a morpholinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, or (d) a pyrrolidinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group]; or R³ and R⁴, R⁴ and R⁵, and R⁵ and R⁶ respectively form, together with the adjacent carbon atom, (1) a 5- to 8-membered homocyclic ring, or (2) a 5- to 8-membered heterocyclic ring having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

11. The compound according to Claim 1, wherein R¹ is a phenyl group which may be substituted with 1 to 3 substituents selected from (a) a C₁₋₃ alkyl group, (b) a C₁₋₃ alkoxy group, (c) a halogen atom, and (d) a hydroxy group.

12. The compound according to Claim 1, wherein R² is a hydrogen atom or an amino group.

5 13. The compound according to Claim 1, wherein R⁴ is (1) a hydrogen atom, (2) a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group, or (3) a group represented by the formula: -X' (CH₂)_{b'}-R^{11'} (wherein X' is -O- or -NH-; b' is an integer from 2 to 4; and R^{11'} is (1') a piperidyl group which 10 may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (2') a piperazinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (3') a morpholinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, or (4') a pyrrolidinyl group which may be substituted 15 with a hydroxy group or a C₁₋₆ alkyl group).

14. The compound according to Claim 1, wherein R⁵ is (1) a hydrogen atom, (2) a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group, or (3) a group represented by the 20 formula: -X' (CH₂)_{b'}-R^{11'} (wherein X' is -O- or -NH-; b' is an integer from 2 to 4; R^{11'} is (1') a piperidyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (2') a piperazinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group, (3') a morpholinyl group which may 25 be substituted with a hydroxy group or a C₁₋₆ alkyl group, or (4') a pyrrolidinyl group which may be substituted with a hydroxy group or a C₁₋₆ alkyl group).

15. The compound according to Claim 1, wherein R⁶ is a 30 hydrogen atom, or a C₁₋₆ alkoxy group which may be substituted with a C₁₋₆ alkoxy group.

16. The compound according to Claim 1, which is 3-amino-7,8-dimethoxy-2-(5-hydroxy-2-methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-

methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-
5 pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-[4-(2,6-difluorophenoxy)-5-hydroxy-2-methylphenyl]-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-7-(2-hydroxyethoxy)-2-(5-hydroxy-2-methylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2,4-dimethylphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-7-(2-hydroxyethoxy)-2-(5-hydroxy-2-methyl-4-phenoxyphenyl)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one,
15 or a salt thereof.

17. A prodrug of the compound according to Claim 1.

18. A medicine comprising the compound according to Claim 1 or
25 a prodrug thereof.

19. The medicine according to Claim 18, which is a kinase inhibitor.

30 20. The medicine according to Claim 18, which is an Src inhibitor.

21. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of cancer.

22. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of breast cancer, renal cancer, urinary bladder cancer, oral cavity cancer, laryngeal cancer, esophageal cancer, stomach cancer, colon cancer,
5 ovarian cancer, lung cancer, pancreatic cancer, liver cancer, prostate cancer or skin cancer.

23. The medicine according to Claim 18, which is an agent for the prophylaxis and/or treatment of osteoporosis.

10

24. A method of inhibiting kinase which comprises administrating an effective amount of the compound according to Claim 1 or a prodrug thereof to a mammal.

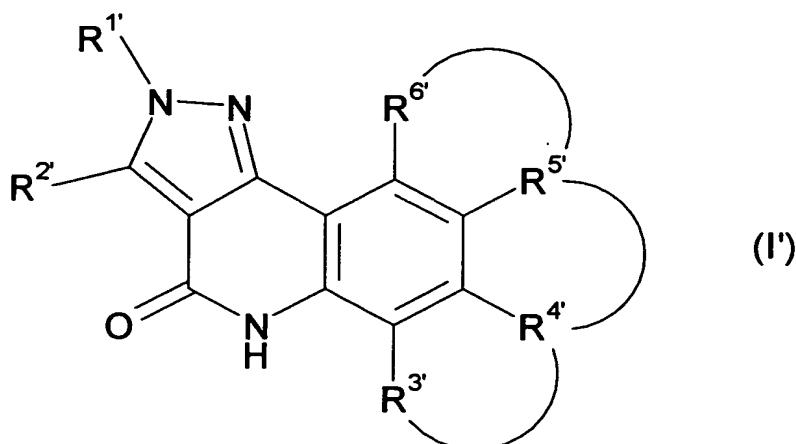
15 25. A method of preventing and/or treating cancer which comprises administrating an effective amount of the compound according to Claim 1 or a prodrug thereof to a mammal.

26. Use of the compound according to Claim 1 or a prodrug
20 thereof, for the manufacture of a kinase inhibitor.

27. Use of the compound according to Claim 1 or a prodrug thereof, for the manufacture of an agent for the prophylaxis and/or treatment of cancer.

25

28. A compound represented by the formula:



wherein R^{1'} is a cycloalkyl group which may be substituted; R^{2'} is a hydrogen atom, an amino group which may be substituted, a hydroxy group which may be substituted, or a thiol group which may be substituted; R^{3'}, R^{4'}, R^{5'} and R^{6'}, which may be identical or different, are each (1) a hydrogen atom, (2) a nitro group, (3) a cyano group, (4) a halogen atom, (5) a hydrocarbon group which may be substituted, (6) an amino group which may be substituted, (7) a hydroxy group which may be substituted, or 10 (8) a thiol group which may be substituted; R^{3'} and R^{4'}, R^{4'} and R^{5'}, and R^{5'} and R^{6'} may respectively form a ring together with the adjacent carbon atom, or a salt thereof.